

CURRICULUM VITAE

LAZAROS OREOPOULOS (aka LAZAROS ORAIOPOULOS)

Research Physical Scientist NASA/Goddard Space Flight Center

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Research Area Experience:

Atmospheric Radiative Transfer, Cloud and Aerosol Remote Sensing, GCM Cloud and Radiation Parameterizations, Cloud Effects on Climate, Cloud Heterogeneity, Climate Dynamics and Change

Education:

9/92 - 6/96	Ph. D. in Atmospheric and Oceanic Sciences McGill University, Montreal, Canada
9/90 - 8/92	M. Sc. in Meteorology McGill University, Montreal, Canada
9/85 - 11/89	B. Sc. in Physics Aristotle's University of Thessaloniki, Thessaloniki, Greece

Work Experience:

12/08-present	Research Physical Scientist (GS-14) NASA GSFC, Climate and Radiation Laboratory, Code 613
1/06-12/08	Research Associate Professor JCET & Physics Dept., University of Maryland Baltimore County NASA GSFC, Climate and Radiation Branch, Code 613.2
4/99-12/05	Research Assistant Professor JCET & Physics Dept., University of Maryland Baltimore County NASA GSFC, Climate and Radiation Branch, Code 613.2
10/97-3/99	Assistant Research Scientist JCET, University of Maryland Baltimore County and NASA GSFC, Climate and Radiation Branch, Code 613.2
8/96 - 10/97	Research Scientist Cloud Physics Research Division Meteorological Service of Canada, Downsview, Canada

Teaching Experience:

- Fall 1999, 2001, 2003, 2005, 2006: Instructor, Atmospheric Radiation PHYS 721, UMBC Physics.
- Spring 1993-Fall 1995: Teaching Assistant, Introductory Meteorology, McGill University Dept. of Atmospheric and Oceanic Sciences.

Management Experience:

Leader, JCET Atmospheric Radiation Focus Group: During my tenure as JCET faculty I served as leader of the Radiation Focus Group for more than 2.5 years. In this capacity I provided scientific leadership to the group, performed annual evaluations, appraisals and salary raise recommendations to the director of JCET, and had the overall responsibility for writing and compiling the group's section (including scientific vision) for the JCET annual report.

Deputy Project Scientist, Aqua: For almost three years I have been performing my duties as a deputy of the Aqua Project Scientist. My duties include being an advocate for the mission (I have organized a 10-year anniversary Union Session at the Fall 2011 AGU), having supervising responsibilities of the Aqua budget, writing portions of the bi-annual Senior Review proposal, representing Aqua in various budgetary (e.g., PPBEs), technical, and project scientist meetings and being the technical officer and evaluator of grants disbursed as part of Aqua Science. This year I had a lead role in organizing and executing a 10-year celebration with 100+ guests at GSFC's Visitor's Center.

Agency Technical Representative, SESDA III IT contract: I am currently serving as the ATR of the SESDA III IT contract for the Climate and Radiation Laboratory. My duties involve contract budget assessments and assisting in the design and management of computer support services for the Lab, as well as consulting on performance evaluations of involved personnel.

Chair, Continual Intercomparison of Radiation Codes (CIRC) Working Group in IRC, GDAP and GASS: I have been leading the CIRC project since the mid-2000's and have been reporting on its progress to international organizations such as IRC and GEWEX. The project involves coordinating efforts of many international radiation practitioners and evaluating the quality of the radiative transfer codes they use, maintain, and operate in a variety of modeling environments, including global models. I have created and managed a dedicated website for this project.

Scientific guidance and salary support of research associates: Since joining civil service, I have provided salary funding and scientific supervision to the following research associates, postdocs, or graduate students: Tamas Varnai (UMBC/JCET), Michael Wilson (UMBC/GEST), Dongmin Lee (USRA), Tianle Yuan (UMBC/JCET), Ricardo Morales (Georgia Tech).

Computer Skills:

- Multi-year experience with Microsoft Office, OS-X and a variety of applications in the OS-X environment, various flavors of Linux environment, various flavors of Windows PC environment.
- Computer languages: Fortran 77/90/95, GrADS, IDL, basic HTML, script language in a Unix environment.

Honors Received:

- April 1997: Postdoctoral Visiting Fellowship in a Canadian Government Laboratory by the National Sciences and Engineering Research Council of Canada.
- December 2001: Award for best paper, NASA-GSFC's Climate and Radiation Branch.
- January 2005: Award for scientific leadership, NASA-GSFC's Climate and Radiation Branch.

- **Professional Associations:**

- Member of American Meteorological Society (AMS)
- Member of American Geophysical Union (AGU)

Professional Experience and Activities:

- Aqua Deputy Project Scientist, February 2010-present
- Member of the AMS Committee on Atmospheric Radiation, 2008-2011
- Member of the International Radiation Commission (IRS), 2010-present
- Member of GEWEX's GASS Science Steering Committee 2012-present
- Co-founder of International Intercomparison of 3D Radiation Codes (I3RC)
- Leader of the Continual Intercomparison of Radiation Codes (CIRC)
- Session Convener and Chair: 3rd I3RC Workshop; 12th AMS Radiation Meeting; AGU Fall 2011 Meeting; AGU Fall 2012 Meeting
- Chair of GWEX's GDAP (formerly GRP) and GASS (formerly GCSS) working group on CIRC, 2007-present
- Chair of IRC working group on CIRC, 2008-present
- Member of the Landsat Data Continuity Mission (LDCM) Science Team, 2006-2011
- Member of the Atmospheric Radiation Measurements Program Science Team, 2007-2008
- Member of the CloudSat Science Team, 2011-present
- Invited talks at GSFC's Climate and Radiation Branch, GSFC's Aerocenter, NCAR, SUNY, Univ. of Arizona, NASA Sounder Science Team Meetings, Rutgers University, ISCCP 30th Anniversary Conference, UMBC Physics, UMBC Geography, Univ. of Thessalonki (Greece), National Academy of Athens (Greece), National Observatory of Athens (Greece), Univ. of Athens Greece.

Professional and Community Service:

- 1/11-1/13 Member of NASA-GSFC's Science Director's Committee (SDC)
- 1/03-10/05 Leader, JCET Atmospheric Radiation Focus Group
- 1/03-5/05 Member, GEST/JCET Advisory Board
- 2000, 2006, 2008 Chair of JCET Promotion Committees
- 7/02-6/04 and 7/09-10/12 Coordinator, NASA-GSFC Code 613 Seminar Series
- 1/02-2/03 Representative of JCET affiliated faculty, UMBC Physics
- 8/93 - 6/96 Treasurer, of Cooperative Housing Unit "Coop Coup d' Pouce" (Montreal)
- 9/91 - 9/92 Student Representative, McGill Post-Graduate Student Society
- 9/91 - 9/93 Secretary, McGill Atmospheric and Oceanic Sciences Student Society

Reviewing Activities:

- US Government and Expert Reviewer for IPCC AR5.
- Referee for JAM, JAS, QJRM, GRL, JGR, J. Climate, Physics and Chemistry of the Earth, Atmospheric Research, IEEE TGRS, IEEE GRSL, Journal of Applied Remote Sensing, IGARSS, Atmospheric Measurement Techniques, Atmospheric Chemistry and Physics, Geophysical Model Development
- Peer reviewer of NASA Fellowships and Funding Programs, DOE Funding Programs, National Science Foundation Funding Programs
- Panelist of NASA and NOAA proposal evaluation panels
- Peer reviewer for the General Secretariat for Research and Technology programs (Greece)
- External examiner, PhD candidacy of Kurt Fienberg, University of Tasmania, Australia

Research Funding:

- Co-Investigator, NASA-GSFC Science Task Groups, "Comparative modeling of exoplanetary atmospheres", 2012-2013.
- Co-Investigator, NASA-GSFC Science Innovation Fund (SIF) Program, "Applying Earth and planetary atmosphere models to exoplanets", 2012.
- Co-Investigator, NASA grant (IDS program), "Effects of biomass burning on Asian Monsoon water cycle and climate", 2010-2013 (~ \$1.8 M).
- Principal Investigator, NASA grant (CloudSat Science Team recompetition), "Extracting cloud horizontal and vertical variability from CloudSat for the benefit of LSMs", 2010-2013 (~ \$ 565 K).
- Principal Investigator NASA grant (MAP program), "Microphysical and radiative parameterizations of aerosol-cloud interactions for assessing aerosol-climate connections with NASA GEOS-5 GCM simulations", 2009-2012 (~\$860 K).

- Co-Investigator, NASA grant (MAP program), “Assimilation of A-Train satellite data for constraining a new PDF-based cloud parameterization in GEOS-5”, 2009-2012.
- Principal Investigator, DOE grant, “Evaluation of GCM Column Radiation Models under cloudy conditions with the ARM BBHRP Value Added Product”, 2007-2008 (~\$250 K).
- Principal Investigator, USGS grant, “Cloud detection and avoidance for the Landsat Data Continuity Mission”, 2006-2011 (~\$500 K).
- Principal Investigator, NASA grant (GWEC program), “Use of new radiative transfer schemes and satellite data for more realistic cloud radiative forcing and hydrologic cycle in climate models”, 2002-2005 (~\$300 K)
- Co-Investigator, DOE grant, “I3RC (Intercomparison of 3D Radiation Codes) applied to ARM and Landsat retrievals”, 2000-2003.
- Co-Investigator, DOE grant, “Advances in 3-dimensional atmospheric radiation: I3RC Toolbox, interactive aerosol retrieval, and cloud inhomogeneity parameterization”, 2003-2006.
- Co-Investigator, NASA grant, “I3RC Workshops and 3D Community Tools Applied to Assessments and Improvements of Cloud Retrievals from Terra, Aqua, and THOR Offbeam data”, 2003-2006.

Publications (and Other Creative Efforts):

See also: <http://www.researcherid.com/rid/E-5868-2012> for citation metrics

Peer-Reviewed Publications in Scientific Journals

1. Yi, B., P. Yang, B. A. Baum, T. L’Ecuyer, **L. Oreopoulos**, E. J. Mlawer, A. J. Heymsfield and K. N. Liou, 2012: Effects of ice particle surface roughness on ice cloud radiative forcing simulations, submitted to *J. Atmos. Sci.*
2. Meyer, K., S. E. Platnick, **L. Oreopoulos**, and D. Lee, 2012: Estimating the direct radiative forcing of absorbing aerosols overlying marine boundary layer clouds in the southeast Atlantic using MODIS and CALIOP. *J. Geophys. Res.*, submitted.
3. Randles, C. A., Kinne, S., Myhre, G., Schulz, M., Stier, P., Fischer, J., Doppler, L., Highwood, E., Ryder, C., Huttunen, J., Ma, Y., Pinker, R. T., Mayer, B., Neubauer, D., Hitzenberger, R., **L. Oreopoulos**, Lee, D., Pitari, G., Genova, G. D., Rose, F. G., Kato, S., Rumbold, S., Vardavas, I., Hatzianastassiou, N., Matsoukas, C., Yu, H., Zhang, F., Zhang, H., and Lu, P., 2012: Inter-comparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Code Experiment. *Atmos. Chem. Phys.*, submitted.
4. Sud, Y. C., Lee, D., **L. Oreopoulos**, Barahona, D., Nenes, A., and Suarez, M. J., 2012: Performance of McRAS-AC in the GEOS-5 AGCM: aerosol-cloud-microphysics, precipitation, cloud radiative effects, and circulation. *Geosci. Model Dev.*, in press.
5. Wilson, M., and **L. Oreopoulos**, 2012: Enhancing a Simple MODIS Cloud Mask Algorithm for the

- Landsat Data Continuity Mission. *IEEE Trans. Geosc. Rem. Sens.*, in press.
6. Lee, D., **L. Oreopoulos**, G.J. Huffman, W.B. Rossow, and I.-S. Kang, 2012: The precipitation characteristics of ISCCP tropical weather states. *J. Climate*, in press.
 7. Huang, X., Cole, J.N.S., F. He, G.L. Potter, **L. Oreopoulos**, D. Lee, N.G. Loeb, and M. Suarez (2012). Longwave band-by-band cloud radiative effect and its application in GCM evaluation. *J. Climate*, in press.
 8. Morales-Betancourt, R., Lee, D., **L. Oreopoulos**, Sud, Y. C., Barahona, D., and Nenes, A., 2012: Sensitivity of cirrus and mixed-phase clouds to the ice nuclei spectra in McRAS-AC: single column model simulations. *Atmos. Chem. Phys.*, **12**, 10679-10692, doi:10.5194/acp-12-10679-2012.
 9. **Oreopoulos, L.**, Lee, D., Sud, Y. C., and Suarez, M. J., 2012: Radiative impacts of cloud heterogeneity and overlap in an atmospheric General Circulation Model. *Atmos. Chem. Phys.*, **12**, 9097-9111, doi:10.5194/acp-12-9097-2012.
 10. Yuan, T., L. A. Remer, H. Bian, J. R. Ziemke, R. Albrecht, K. E. Pickering, **L. Oreopoulos**, S. J. Goodman, H. Yu, and D. J. Allen, 2012: Aerosol indirect effect on tropospheric ozone via lightning. *J. Geophys. Res.*, **117**, D18213, doi:10.1029/2012JD017723.
 11. **Oreopoulos, L.**, E.J. Mlawer, J. S. Delamere, T. Shippert, J. Cole, B. Fomin, M.J. Iacono, Z. Jin, J. Li, J. Manners, P. Räisänen, F.G. Rose, Y.-C. Zhang, M.J. Wilson, and W.B. Rossow, 2012: The Continual Intercomparison of Radiation Codes: Results from Phase I. *J. Geophys. Res.*, **117**, D06117, doi:10.1029/2011JD016821.
 12. **Oreopoulos L.**, M.J. Wilson, and T. Varnai, 2011: Implementation on Landsat Data of a Simple Cloud Mask Algorithm Developed for MODIS Land Bands. *IEEE Geosc. & Rem. Sens. Lett.*, **99**, 597-601, doi:10.1109/LGRS.2010.2095409.
 13. **Oreopoulos L.**, and W. B. Rossow, 2011: The cloud radiative effects of International Satellite Cloud Climatology Project weather states. *J. Geophys. Res.*, **116**, D12202 doi:10.1029/2010JD015472.
 14. **Oreopoulos L.**, and P. M. Norris, 2011: An analysis of cloud overlap at a midlatitude atmospheric observation facility. *Atmos. Chem. Phys.*, **11**, 5557-5567 doi:10.5194/acp-11-5557-2011.
 15. **Oreopoulos, L.**, and E. Mlawer, 2010: The Continual Intercomparison of Radiation Codes (CIRC): Assessing anew the quality of GCM radiation algorithms. *Bull. Amer. Meteor. Soc.*, **91**, 305-310.
 16. **Oreopoulos, L.**, S. Platnick, G. Hong, P. Yang, and R. F. Cahalan, 2009: The shortwave radiative forcing bias of liquid and ice clouds from MODIS observations. *Atmos. Chem. Phys.*, **9**, 5865-5875.
 17. Vasilkov, A. P., J. Joiner, **L. Oreopoulos**, J. F. Gleason, P. Veefkind, E. Bucsela, E. A. Celarier, R. J. D. Spurr, and S. Platnick, 2009: Impact of tropospheric nitrogen dioxide on the regional radiation budget. *Atmos. Chem. Phys.*, **9**, 6389-6400.
 18. Joiner, J., M. R. Schoeberl, A. P. Vasilkov, **L. Oreopoulos**, S. Platnick, P. F. Levelt, and N. J. Livesey, 2009: Accurate satellite-derived estimates of tropospheric ozone impact on the global radiation budget. *Atmos. Chem. Phys.*, **9**, 4447-4465.

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19. Norris, P. M., **L. Oreopoulos**, A. Y. Hou, W. K. Tao, and X. Zeng, 2008: Representation of 3D heterogeneous cloud fields using copulas: Theory for water clouds. *Q. J. R. Meteorol. Soc.*, **134**, 1843-1864.
 20. Platnick, S., and **L. Oreopoulos**, 2008: The radiative susceptibility of cloudy atmospheres to droplet number perturbations, Part I: Theoretical analysis and examples from MODIS. *J. Geophys. Res.*, **113**, D14S20, doi:10.1029/2007JD009654.
 21. **Oreopoulos, L.**, and S. Platnick, 2008: The radiative susceptibility of cloudy atmospheres to droplet number perturbations, Part II: Global analysis from MODIS. *J. Geophys. Res.*, **113**, D14S21, doi:10.1029/2007JD009655 (*selected as an AGU journal highlight*).
 22. Koren, I., **L. Oreopoulos**, L. A. Remer, G. Feingold, and O. Altaratz-Stollar, 2008: How small is a small cloud?, *Atmos. Chem. Phys.*, **8**, 3855-3864.
 23. **Oreopoulos, L.**, R. F. Cahalan, and S. Platnick, 2007: The plane-parallel albedo bias of liquid clouds from MODIS observations. *J. Climate*, **20**, 5114-5125.
 24. **Oreopoulos, L.**, and R. F. Cahalan, 2005: Cloud inhomogeneity from MODIS. *J. Climate*, **18**, 5110-5124.
 25. Cahalan, R. F., **L. Oreopoulos**, and coauthors, 2005: The international Intercomparison of 3D Radiation Codes (I3RC): Bringing together the most advanced radiative transfer tools for cloudy atmospheres. *Bull. Amer. Meteor. Soc.*, **86**, 1275-1293.
 26. **Oreopoulos, L.**, 2005: The impact of subsampling on MODIS Level-3 statistics of optical thickness and effective radius. *IEEE Trans. Geosc. Rem. Sens.*, **43**, 366-373.
 27. **Oreopoulos, L.**, M.-D. Chou, M. Khairoutdinov, H. W. Barker, and R. F. Cahalan, 2004: Performance of Goddard Earth Observing System GCM Column Radiation Models under heterogeneous cloud conditions. *Atmos. Res.*, **72**, 365-382.
 28. **Oreopoulos, L.** and M. Khairoutdinov, 2003: Overlap properties of clouds generated by a Cloud Resolving Model. *J. Geophys. Res.*, **108**, 4479, doi:10.1029/2002JD003329.
 29. **Oreopoulos, L.**, A. Marshak, and R. F. Cahalan, 2003: Consistency of ARESE II cloud absorption estimates and sampling issues. *J. Geophys. Res.*, **108**, 4029, doi:10.1029/2002JD002243.
 30. Wen, G. S.-C. Tsay, R. F. Cahalan, and **L. Oreopoulos**, 2001: Impact of cumulus cloud spacing on Landsat Atmospheric correction and aerosol retrieval. *J. Geophys. Res.*, **106**, 12129-12138.
 31. Cahalan, R. F., **L. Oreopoulos**, G. Wen, S.-C. Tsay, A. Marshak, and T. Defelice, 2001: Cloud characterization and clear sky correction from Landsat 7. *Rem. Sens. Env.*, **78**, 83-98.
 32. **Oreopoulos, L.**, R. F. Cahalan, A. Marshak, and G. Wen, 2000: A new normalized cloud retrieval technique applied to Landsat radiances over the Oklahoma ARM site. *J. Appl. Met.*, **39**, 2305-2321.
 33. **Oreopoulos, L.**, A. Marshak, R. F. Cahalan, and G. Wen, 2000: Cloud 3D effects evidenced in Landsat spatial power spectra and autocorrelation functions. *J. Geophys. Res.*, **105**, 14777-14788.
 34. Wen, G. S.-C. Tsay, R. F. Cahalan, and **L. Oreopoulos**, 1999: Path radiance technique for retrieving

- aerosol optical thickness over land. *J. Geophys. Res.*, **104**, 31321-31332.
35. Marshak, A., **L. Oreopoulos**, A. Davis, W. J. Wiscombe, and R. F. Cahalan 1999: Horizontal radiative fluxes in clouds and accuracy of the independent pixel approximation at absorbing wavelengths. *Geophys. Res. Lett.*, **26**, 1585-1588.
 36. Marshak, A., W. J. Wiscombe, A. Davis, **L. Oreopoulos**, and R. F. Cahalan, 1999: On the removal of the effect of horizontal fluxes in two-aircraft measurements of cloud absorption. *Q. J. Roy. Met. Soc.* **125**, 2153-2170.
 37. **Oreopoulos, L.**, and H. W. Barker, 1999: Accounting for subgrid-scale cloud variability in a multi-layer 1d solar radiative algorithm. *Q. J. Roy. Met. Soc.* **126**, 301-330.
 38. **Oreopoulos, L.**, and R. Davies, 1998b: Plane parallel albedo biases from satellite observations. Part II: Parameterizations for bias removal. *J. Climate*, **11**, 933-944.
 39. **Oreopoulos, L.**, and R. Davies, 1998a: Plane parallel albedo biases from satellite observations. Part I: Dependence on resolution and other factors. *J. Climate*, **11**, 919-932.
 40. **Oreopoulos, L.** and R. Davies, 1993: Statistical dependence of albedo and cloud cover on sea surface temperature for two tropical marine stratocumulus regions. *J. Climate*, **6**, 2434-2447.

Miscellaneous works (both peer and non-peer reviewed)

1. **Oreopoulos, L.**, and E. Mlawer, 2009: CIRC to provide key intercomparisons of GCM RT codes prior to next IPCC assessment. *Feb. 2009 GEWEX Newsletter*.
2. Woodcock, C. E., and co-authors, incl., **L. Oreopoulos**, 2008: Free access to Landsat imagery, *Science*, **320**, p. 1011, doi: 10.1126/science.320.5879.1011a.
3. **Oreopoulos, L.**, A. Marshak, R. F. Cahalan, T. Varnai, A. B. Davis, and A. Macke, 2006: New directions in the radiative transfer of cloudy atmospheres. *EOS*, **87**(5), 31 January 2006.
4. **Oreopoulos, L.**, and S. Platnick 2000: Review of "Radiative Transfer in the Atmosphere and Ocean" by G. Thomas and K. Stamnes, Cambridge. *Physics Today*, **Nov. 2000**, p.57.
5. **Oreopoulos, L.**, 1996: Plane parallel albedo bias from satellite measurements. C²GCR Report, 96-10, McGill University, 144 pp (PhD thesis).
6. **Oreopoulos, L.**, 1992: Tropical marine stratocumulus and its relation to sea surface temperature. M. Sc. Thesis, McGill University, 112 pp.

Conference Proceedings (both peer and non-peer reviewed)

1. **Oreopoulos, L.**, S. E. Platnick, G. Hong, P. Yang, and R. F. Cahalan, 2009: The Shortwave Radiative Forcing Bias of Homogeneous Liquid and Ice Clouds Observed by MODIS. *Current Problems in Atmospheric Radiation (IRS 2008 Proceedings)*, 569-572.
2. **Oreopoulos, L.**, E. Mlawer, J. Delamere, and T. Shippert, 2009: The Continual Intercomparison of Radiation Codes (CIRC): A New Standard for Evaluating GCM Radiation Codes. *Current Problems in*

Atmospheric Radiation (IRS 2008 Proceedings), 73-76.

3. Koren, I., O. Altaratz, G. Feingold, L. A. Remer, T. G. Reisin, and **L. Oreopoulos**, 2008: On the contribution of small clouds to the twilight zone in a sparse cumulus cloud field. *Proc. Of 15th ICCP*, http://convention-center.net/iccp2008/abstracts/Program_on_line/Oral_10/Koren_extended.pdf.
4. **Oreopoulos, L.**, and S. Platnick, 2008: Determining broadband cloud albedo susceptibility from MODIS. *Proc. of 8th Conference on Meteorology-Climatology Atmospheric Physics*, vol. C, 224-231.
5. **Oreopoulos, L.**, and R. F. Cahalan, 2008: Recent observations of cloud inhomogeneity from space. *Proc. of 8th Conference on Meteorology-Climatology Atmospheric Physics*, vol. C, 216-223.
6. **Oreopoulos, L.**, and S. Platnick, 2006: Investigation of broadband radiative flux changes due to increases in droplet number density concentrations, *16th ARM Science Team Meeting Proceedings*, http://www.arm.gov/publications/proceedings/conf16/extended_abs/oreopoulos_l.pdf.
7. **Oreopoulos, L.**, H. W. Barker. M.-D. Chou, R. F. Cahalan, and M. Khairoutdinov, 2003: Treatments of Inhomogeneous Clouds in a GCM Column Radiation Model, *12th ARM Science Team Meeting Proceedings*, http://www.arm.gov/publications/proceedings/conf13/extended_abs/oreopoulos-l.pdf.
8. **Oreopoulos, L.**, H. W. Barker. M.-D. Chou, R. F. Cahalan, and M. Khairoutdinov, 2002: Allowing for inhomogeneous clouds in the Goddard Earth Observing System GCM Column Radiation Model. *Proc. of 11th Conf. on Atmospheric Radiation*, Ogden, Utah, J185-J187.
9. **Oreopoulos, L.**, R. F. Cahalan, G. Wen, A. Marshak, and D. Kratz, 2001: Cloud retrievals from Landsat-7 during ARESE II, *11th ARM Science Team Meeting Proceedings*, www.arm.gov/publications/proceedings/conf11/abstracts/oreopoulos-l.pdf.
10. Wen G., **L. Oreopoulos**, R. F. Cahalan, and S.-C. Tsay, 2001: Cumulus clouds and reflected sunlight from Landsat ETM+, *11th ARM Science Team Meeting Proceedings*, www.arm.gov/publications/proceedings/conf11/abstracts/wen-g.pdf.
11. Marshak, A., A. B. Davis, **L. Oreopoulos**, and T. Várnai, 2000: Error estimation in the Monte Carlo method for calculating solar radiances: Illustration with cloud models based on Landsat measurements. *Intercomparison of three-dimensional radiation codes: Abstracts of the first and second international workshops*. University of Arizona Press, Tucson (AZ), ISBN 0-9709609-0-5.
12. Wen, G. S.-C. Tsay, R. F. Cahalan, and **L. Oreopoulos**, 1999: Aerosol optical thickness over land using the path radiance technique. *Proc. of 10th Conf. on Atmospheric Radiation*, Madison, WI, 500-503.
13. Marshak, A., **L. Oreopoulos**, A. Davis, W. J. Wiscombe, and R. F. Cahalan 1999: Accuracy of the independent pixel approximation at absorbing wavelengths. *Proc. of 10th Conf. on Atmospheric Radiation*, Madison, WI, 583-586.
14. **Oreopoulos, L.**, A. Marshak, R. F. Cahalan, and G. Wen, 1999: Cloud power spectra – dependence on solar zenith angle and wavelength, implications for cloud optical property retrievals. *Proc. of 10th Conf. on Atmospheric Radiation*, Madison, WI, 68-71.
15. **Oreopoulos, L.**, A. Marshak, R. F. Cahalan, and G. Wen, 1999: Application of traditional and novel

- cloud property retrieval techniques on Landsat TM data over SGP, *9th ARM Science Team Meeting Proceedings*, www.arm.gov/publications/proceedings/conf09/abstracts/oreopoulos-99.pdf.
16. Wen, G., R. F. Cahalan, S.-C. Tsay, and **L. Oreopoulos**, 1999: Aerosol optical thickness retrieval from Landsat TM image over SGP site of the ARM program, *9th ARM Science Team Meeting Proceedings* http://www.arm.gov/publications/proceedings/conf09/extended_abs/wen_g.pdf.
 17. Wiscombe, W. J., A. Marshak, **L. Oreopoulos**, R. F. Cahalan, and A. Davis, 1998: Two methods for removing the effect of horizontal fluxes from stacked aircraft measurements of shortwave absorption by clouds. *Proc. of 8th ARM Science Team Meeting*, Tucson, Arizona, 819-823.
 18. Barker, H. W., and **L. Oreopoulos**, 1998: A multi-layer solar radiative transfer algorithm that accounts for subgrid-scale cloud variability. *8th ARM Science Team Meeting Proceedings*, Tucson, Arizona, 57-61.
 19. **Oreopoulos L.**, and R. Davies, 1996: Plane-parallel albedo bias from satellite observations. *Proc. of IRS'96*, 286-289, Fairbanks, Alaska.
 20. **Oreopoulos L.**, and R. Davies, 1992: Marine stratocumulus radiative feedback derived from ERBE. *Proc. 11th ICCP*, Montreal, Canada, 391-394.